CLAIMS

1. An apparatus suitable for simulating a standard wafer in semiconductor manufacturing equipment, comprising:

a support layer suitable for being handled by the semiconductor manufacturing equipment; and

a mixture including a process agent and a material, the mixture being applied to the support layer,

wherein the apparatus simulates a wafer including the material and having the process agent thereon.

- 2. The apparatus of claim 1, wherein the process agent is photoresist.
- 3. The apparatus of claim 1, wherein the material is silicon and the apparatus simulates a wafer including polysilicon.
- 4. The apparatus of claim 1, wherein the material is tungsten and the apparatus simulates a wafer including tungsten.
- 5. The apparatus of claim 1, wherein the material is tungsten silicide and the apparatus simulates a wafer including tungsten silicide.

- 6. The apparatus of claim 1, wherein the material is titanium and the apparatus simulates a wafer including titanium.
- 7. The apparatus of claim 1, wherein the material is titanium nitride and the apparatus simulates a wafer including titanium nitride.
- 8. The apparatus of claim 1, wherein the material is silicon dioxide and the apparatus simulates a wafer including silicon dioxide.
- 9. The apparatus of claim 1, wherein the material is aluminum and the apparatus simulates a wafer including aluminum.
- 10. The apparatus of claim 1, wherein the material is platinum and the apparatus simulates a wafer including platinum.
- 11. The apparatus of claim 1, wherein the material is ruthenium and the apparatus simulates a wafer including ruthenium.
- 12. The apparatus of claim 1, wherein the material is ruthenium oxide and the apparatus simulates a wafer including ruthenium oxide.
- 13. The apparatus of claim 1, wherein the material is copper and the apparatus simulates a wafer including copper.

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- 14. The apparatus of claim 1, wherein the material is tantalum and the apparatus simulates a wafer including tantalum.
- 15. The apparatus of claim 1, wherein the material is nickel and the apparatus simulates a wafer including nickel.
- 16. The apparatus of claim 1, wherein the support layer is at least one of a disc and a wafer.
- 17. The apparatus of claim 1, wherein the support layer includes at least one of silicon, metal, plastic, and an oxide.
- 18. The apparatus of claim 1, wherein the material and the process agent of the mixture are baked on the support layer.
- 19. The apparatus of claim 1, wherein a ratio between the material to the process agent corresponds to an exposed area on the wafer to be simulated.
- 20. A process for manufacturing an apparatus suitable for use in simulating a standard wafer in semiconductor manufacturing equipment, comprising:

combining a process agent and a material; and

applying the combination of the process agent and the material to a support layer to simulate a wafer including the material and having the process agent thereon.

21. The process of claim 20, wherein the process agent is a photoresist.

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- 22. The process of claim 20, wherein the material is silicon dioxide to simulate a wafer including polysilicon.
- 23. The process of claim 20, wherein the material is tungsten to simulate a wafer including tungsten.
- 24. The process of claim 20, wherein the material is tungsten silicide to simulate a wafer including tungsten silicide.
- 25. The process of claim 20, wherein the material is titanium to simulate a wafer including titanium.
- 26. The process of claim 20, wherein the material is titanium nitride to simulate a wafer including titanium nitride.
- 27. The process of claim 20, wherein the material is silicon dioxide to simulate a wafer including silicon dioxide.
- 28. The process of claim 20, wherein the material is aluminum to simulate a wafer including aluminum.
- 29. The process of claim 20, wherein the material is platinum to simulate a wafer including platinum.

- 30. The process of claim 20, wherein the material is ruthenium to simulate a wafer including ruthenium.
- 31. The process of claim 20, wherein the material is ruthenium oxide to simulate a wafer including ruthenium oxide.
- 32. The process of claim 20, wherein the material is copper to simulate a wafer including copper.
- 33. The process of claim 20, wherein the material is tantalum to simulate a wafer including tantalum.
- 34. The process of claim 20, wherein the material is nickel to simulate a wafer including nickel.
- 35. The process of claim 20, wherein the support layer is at least one of a disc and a wafer.
- 36. The process of claim 20, wherein the support layer includes at least one of silicon, metal, plastic, and an oxide.
 - 37. The process of claim 20, comprising:

baking the combination of the material and the process agent onto the support layer.

38. The process of claim 20, comprising:

selecting a ratio between the material and the process agent that corresponds to an exposed area on the wafer to be simulated.

39. The process of claim 38, comprising:

mixing the process agent and the material such that the combination is a mixture.

40. In a semiconductor plasma chamber, a method for simulating a standard wafer using an apparatus composed of a combination of a process agent and a material applied to a support layer, the method comprising:

placing the apparatus within the semiconductor plasma chamber;

etching the apparatus; and

simulating the standard wafer by simultaneously producing byproducts during the etching that are similar to byproducts produced by the standard wafer.

- 41. The method of claim 40, wherein the process agent is photoresist.
- 42. The method of claim 40, wherein the material is silicon dioxide to simulate a wafer including polysilicon.
- 43. The method of claim 40, wherein the material is tungsten to simulate a wafer including tungsten.

- 44. The method of claim 40, wherein the material is tungsten silicide to simulate a wafer including tungsten silicide.
- 45. The method of claim 40, wherein the material is titanium to simulate a wafer including titanium.
- 46. The method of claim 40, wherein the material is titanium nitride to simulate a wafer including titanium nitride.
- 47. The method of claim 40, wherein the material is silicon dioxide to simulate a wafer including silicon dioxide.
- 48. The method of claim 40, wherein the material is aluminum to simulate a wafer including aluminum.
- 49. The method of claim 40, wherein the material is platinum to simulate a wafer including platinum.
- 50. The method of claim 40, wherein the material is ruthenium to simulate a wafer including ruthenium.
- 51. The method of claim 40, wherein the material is ruthenium oxide to simulate a wafer including ruthenium oxide.

- The method of claim 40, wherein the material is copper to simulate a wafer including copper.
- 53. The method of claim 40, wherein the material is tantalum to simulate a wafer including tantalum.
- 54. The method of claim 40, wherein the material is nickel to simulate a wafer including nickel.
- 55. The method of claim 40, wherein the support layer is at least one of a disc and a wafer.
- 56. The method of claim 40, wherein the support layer includes at least one of silicon, metal, plastic, and an oxide.
- 57. The method of claim 40, wherein the material and the process agent are baked on the support layer.
- 58. The method of claim 40, wherein a ratio between the material and the process agent corresponds to an exposed area on the wafer to be simulated.
- 59. An apparatus suitable for simulating a standard manufactured device in manufacturing equipment, comprising:

a support layer suitable for being handled by the manufacturing equipment; and

a mixture including a process agent and a material, the mixture being applied to the support layer,

wherein the apparatus simulates a manufactured device including the material and having the process agent thereon.